

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. Cancelled
2. Cancelled
3. Cancelled
4. Cancelled
5. Cancelled
6. Cancelled
7. Cancelled
8. Cancelled
9. (Previously Presented) A delivery apparatus for delivery of chemicals down a wellbore comprising:
 - an elongate member;
 - an interface section on the upper portion of said elongate member; and
 - a chemical dispensing section in the lower portion of said elongate member,wherein said chemical dispensing section is dimension so to be able to pass through a stop at the bottom of a tubing string.
10. (Previously Presented) A delivery apparatus of claim 9 wherein said chemical dispensing section defines one or more receptacles for receiving treatment chemical.

11. (Previously Presented) An apparatus for the charging of treatment chemical to a chemical delivery system comprising:

a conduit in a wellhead manifold which receives a chemical system said conduit having an opening along its length;

a plunger catcher connected to said conduit;

an applicator connected to said opening said applicator having an open end positioned to apply treatment chemical to the outer surface of a plunger; and

a delivery conduit connected to said applicator.

12. (Original) An apparatus of claim 11 further comprising a chemical storage source connected to said delivery conduit.

13. (Original) An apparatus of claim 11 further comprising a valve connected to said delivery conduit.

14. Cancelled

15. Cancelled

16. (Previously Presented) A chemical dispenser for use with a plunger in a wellbore comprising:

a head member; and

a body defining at least one receptacle for a treatment chemical said body also defining one or more upper ports and one or more lower ports; wherein said at least one receptacle is a wire mesh defining interstices.

17. (Previously Presented) A chemical dispenser for use with a plunger in a wellbore comprising:

a body defining at least one receptacle for a treatment chemical;

an attachment mechanism connected to said body; and

wherein said at least one receptacle is a wire mesh defining interstices.

18. Cancelled

19. (Previously Presented) A chemical delivery system for delivering chemicals down a wellbore comprising:

a plunger; and

a chemical dispenser attached to said plunger said chemical dispenser having one or more receptacles for receiving treatment chemicals, wherein said chemical dispenser includes a stand off section, said stand off section and the portion of said dispenser having said one or more receptacles for receiving treatment chemicals are dimensioned such that they can pass through a stop at the bottom of a tubing string.

20. (Currently Amended) A chemical dispenser for use with a plunger in a wellbore which includes a defined stop positioned at the bottom of a tubing string located inside said wellbore comprising:

a body defining a receptacle for receiving a treatment chemical; and

said body portion defining said receptacle being dimensioned such that it can pass through [[a]] said defined stop at the bottom of [[a]] said tubing string.

21. (Previously Presented) A chemical dispenser of claim 20 wherein said body also defines one or more upper ports and one or more lower ports for flow into and out of said receptacle.

22. (Previously Presented) A chemical dispenser of claim 21 further comprising a valve to control liquid flow into said one or more lower ports.

23. (Previously Presented) A chemical dispenser of claim 22 wherein said valve is a flexible sheet.

24. (Previously Presented) A plunger apparatus of claim 3 wherein said plunger is selected from the group consisting of a coiled tube plunger, a brush plunger, and a bar plunger having one or more exterior grooves.

25. (Previously Presented) A delivery apparatus for delivery of chemicals down a wellbore comprising:
a plunger having an outer diameter and defining portions having a smaller diameter which are open to the exterior thereby defining a space open to the exterior of said plunger along the side of said plunger; and
a treatment chemical applied to said space and at least partially filling said space.

26. (Previously Presented) A plunger apparatus of claim 25 wherein said plunger is selected from the group consisting of a coiled tube plunger, a brush plunger, a bar plunger having one or more exterior grooves, wobble washer plunger, and a snake plunger.

27. (Previously Presented) A chemical delivery apparatus comprising:
an elongate member;
an interface section on the upper portion of said elongate member;
a chemical dispensing section in the lower portion of said elongate member;
a standoff section between said interface section and said chemical dispensing section;
wherein said chemical dispensing section is dimensioned so as to be able to pass through a stop at the bottom of a tubing string; and
wherein at least a portion of said standoff section is dimensioned so as to be able to pass through a stop at the bottom of a tubing string.

28. (Previously Presented) A chemical delivery apparatus of claim 27 wherein the length of said standoff section is sufficient such that all or a portion of said chemical dispensing section extends below the bottom of the stop on the end of the tubing.

29. (Previously Presented) A chemical delivery apparatus of claim 27 wherein the length of said standoff section is sufficient such that all or a portion of said chemical dispensing section extends below the bottom of the tubing.

30. (Previously Presented) A chemical dispenser of claim 20 wherein said at least one receptacle is a wire mesh defining interstices.

31. (Previously Presented) A delivery apparatus of claim 9 further comprising a treatment chemical is in the form of a stick or time release capsules in said dispensing section.

32. (Previously Presented) A delivery apparatus of claim 10 further comprising a treatment chemical is in the form of a stick or time release capsules in said dispensing section.

33. (Previously Presented) A chemical delivery system of claim 19 further comprising a treatment chemical is in the form of a stick or time release capsules in said one or more receptacles.

34. (Previously Presented) A chemical delivery system of claim 20 further comprising a treatment chemical is in the form of a stick or time release capsules in said one or more receptacles.

35. (Previously Presented) A chemical delivery system of claim 21 further comprising a treatment chemical is in the form of a stick or time release capsules in said one or more receptacles.

36. (Previously Presented) A chemical delivery system of claim 22 further comprising a treatment chemical is in the form of a stick or time release capsules in said one or more receptacles.

37. (Previously Presented) A chemical delivery system of claim 23 further comprising a treatment chemical is in the form of a stick or time release capsules in said one or more receptacles.

Application No. 10/630,292
Amendment dated December 6, 2005
Reply to Office Action of October 12, 2005

38. (Previously Presented) A chemical delivery system of claim 27 further comprising a treatment chemical is in the form of a stick or time release capsules in said chemical dispensing section.

39. Cancelled